

**Recognition of Outstanding Work by Aquatic Science Students: Cooperation
between the American Society of Limnology and Oceanography and the Ocean
Sciences Directorate of The Office of Naval Research**

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LONG-TERM GOALS

The ASLO Student Poster Award was created by the American Society of Limnology and Oceanography (ASLO) in order to recognize scientists sufficiently early in their career to have an impact on future research plans and employment opportunities. Through such recognition we aim to encourage the best efforts of participating students and also energize and motivate the student advisors and colleagues. In turn, this striving for excellence will benefit the entire scientific enterprise, including basic research and its application to policy issues.

OBJECTIVES

To award \$500 cash prizes to honor recipients of ASLO Student Poster Awards. These awards were presented at the annual ASLO meetings and at the biannual joint ASLO/American Geophysical Union (AGU) Ocean Sciences Meetings.

APPROACH

Poster judging takes place in two rounds. In the first round, each poster is critiqued by at least two judges on the basis of: creativity/significance; quality of experimental design/methods; and clarity of presentation/quality of tables and figures/overall visual quality/impact. The first round typically narrows the field to the top 10-20% of entrants. A panel of 3-6 judges then evaluates the finalists and makes the final selection. Recipients are announced and honored before the end of the meeting and, following the meeting, in the next issue of the ASLO Bulletin. They are also listed in the ASLO Handbook and Directory and on the ASLO Web Page (www.aslo.org).

WORK COMPLETED

A total of 39 awards were presented over the life of this grant at eight annual ASLO meetings (1992 – 1999) and at three biannual joint ASLO/AGU Ocean Sciences meetings (1994, 1996, and 1998).

19990421009

Awards were made to the following students through this grant:

1992, Santa Fe, NM

David Drapeau, University of Connecticut

Drapeau, D.T. and H.G. Dam, "Comparison of two flocculator designs in particle aggregation experiments."

Catherine O'Riordan, Stanford University

O'Riordan, C.S., S.G. Monismith, and J.R. Coseff, "A study of concentration boundary layer formation over a bed of model siphonate bivalves."

Lisa Uttal-Cooke, University of Hawaii-Manoa

Uttal-Cooke, L. "Diet and distribution in the midwater worm, *Poebius meseres* Heath in Monterey Bay, California."

1993, Edmondton, AB, Canada

Angeline K-Y. Lam, University of Alberta, Canada

Lam, A.K-Y., S.E. Hrudey, B.G. Kotak and E.E. Prepas, "Chemical effect and fate of cyanobacterial toxin, Microcystin-LR."

Lynn A. Leonard, University of South Florida

Leonard, L.A., M.E. Luther, A.C. Hine and D.J. Reed, "Free surface flow in marsh canopies."

Brenda M. Miskimmin, University of Alberta, Canada

Miskimmin, B.M. and D. W. Schindler, D.C. G. Muir and N.B. Grift, "Fate of organochlorine contaminants applied to lakes thirty years ago."

1994 AGU/ASLO Ocean Sciences, San Diego, CA

Lidewijde Maria Eijssink, University of Utrecht, The Netherlands

Eijssink, L.M. and G.J. de Lange, "Various Phosphorus Phases in Sediments from the Eastern Mediterranean; a Comparison of Some Sequential Extraction Methods."

Eric L. Canuteson, University of California, San Diego

Canuteson, E.L., J.A. Hildebrand, P.R. Parker and M.A. Zumberge, "Construction and Testing of an Ocean Bottom Absolute Gravity Meter."

Michael R. Penn, Michigan Technological University

Penn, M.R., M.T. Auer and E. Van Orman, "Seasonal and Vertical Variability in the Phosphorus Fractions of the Seston in a Calcareous, Hypereutrophic Lake."

1994 ASLO/PSA, Miami, FL

Deana L. Erdner, Woods Hole Oceanographic Institution

Erdner, D.L., N. Price and D.M. Anderson, "A Molecular Response to Iron Limitation in Marine Phytoplankton."

Jennifer I. Tougas, University of Georgia

Tougas, J.I. and J.W. Porter, "Scleractinian Coral Settlement to Artificial Substrata in the Florida Keys: Work in Progress."

Yvonne Vadeboncoeur, University of Notre Dame

Vadeboncoeur, Y., D.M. Lodge, D.L. Christensen and K.L. Cottingham, "Impact of Whole-Lake Nutrient Enrichment on the Ratio of Benthic to Pelagic Chlorophyll."

1995, Reno, NE

Jeffrey J. Hudson, University of Waterloo (Canada)

J.J. Hudson and W.D. Taylor, "Measuring phosphorus regeneration in planktonic communities"

Brian H. Yocis, State University of New York College of Environmental Science and Forestry, Syracuse, NY

Yocis B.H., D.J. Kieber and K. Mopper, "Hydrogen peroxide photochemical production and decay in Antarctic waters."

Matthew C. Brewer, University of Wisconsin at Madison

M.C. Brewer and P. Dawidowicz, "Kairomone-enhanced escape behavior within a *Daphnia* clone."

1996 ASLO/AGU Ocean Sciences, San Diego, CA

Sonya T. Dyhrman, Scripps Institution of Oceanography (University of California at San Diego)

Dyhrman, S. and B. Palenik, "Cell-surface proteins as markers for phosphate-limitation in dinoflagellates."

Anna M. Farrenkopf, University of Delaware

Farrenkopf, A.M., G.W. Luther, III and P. Chapman, "Reduced iodine reflects productivity and denitrification in the Arabian Sea."

Richard E. Zeebe, Alfred-Wegener Institute, University of Bremen (Germany)

Zeebe, R.E., H. Eicken, D.H. Robinson, D. Wolf-Gladrow and G.S. Dieckmann, "Modelling the heating and melting of sea ice through light absorption by microalgae."

1996 Milwaukee, WI

Mark A. Heilman, University of Notre Dame

Heilman, M.A. and R.G. Carlton. "Methane oxidation associated with tissues of submersed vascular macrophytes."

Jerry C. Liu, State University of New York at Stony Brook

Liu, J.C., G. Trager and J. Yen. "Effects of copepod morphology on high speed escape reaction: Biomechanical consequences of life stages and interspecific differences."

Traci M. Main, Arizona State University

Main, T.M., D.R. Dobberfuhl and J.J. Elser, "Stoichiometry and ontogeny in zooplankton: A test of the growth rate hypothesis."

1997 ASLO Santa Fe, NM

Irena F. Creed, University of Toronto, Canada

Creed, I.F. and L.E. Band, "The role of spatial organization of source areas on water and nitrogen export."

Yu A. Gao, University of Southern California

Gao, Y., G.J. Smith and R.S. Alberte, "Temperature dependence of nitrate reductase (NR) activity in marine phytoplankton: Ecological implications."

Christian E. Hamm, Alfred Wegener Institute for Polar and Marine Research., Germany

Hamm, C.E., M. Reigstad and P. Wassmann, "Chemical tracing of Phaeocystis sedimentation in the Balsfjord, Northern Norway."

Stacy L. McLeroy-Etheridge, University of Connecticut

McLeroy, Etheridge, S.L. and G.B. McManus, "Effect of copepod feeding on ingested phytoplankton pigment.s"

Olaf G. Olson, Lehigh University

Olson, O.G. and S.C. Fritz, "Driving changes in periphytic diatom community structure during early lake ontogeny."

Rolf D. Vinebrook, University of Regina, Canada

Vinebrook, R.D. and P.R. Leavitt, "The ecological significance of allochthonous DOM in an ultraoligotrophic clearwater lake."

1998 ASLO/AGU Ocean Sciences, San Diego, CA

Juli Berwald, University of Southern California

Berwald, J., C. D. Mobley and D.A. Kiefer. "The packet model for the downwelling average cosine of irradiance in the ocean."

John A. Quinlan, University of North Carolina

Quinlan, J.A., F.E. Werner, S. Gallager, R.G. Lough, J. van Keuren and L.J. Buckley. "Modeling the growth of first-feeding cod larvae on Georges Bank."

Gabriela W. Smalley, University of Maryland

Smalley, G.W., D.W. Coats and D.K. Stoecker. "Influence of prey density, light, and nutrients on feeding behavior of the mixotrophic dinoflagellate *Ceratium furca*."

1998 ASLO/ESA, St. Louis, MO

Jennifer Klug, University of Wisconsin-Madison

Klug, J.L., J.M. Fischer and A.R. Ives. "Compensatory dynamics in planktonic community responses to pH perturbations."

Kevin Fielman, University of Southern Carolina

Fielman, K.T. "Novel nasty neighborhoods: A test of tolerance."

Karleen A. Boyle, University of California - Los Angeles

Boyle, K.A., K.P. Kramer and P. Fong. "A microcosm experiment testing whether nitrogen or phosphorus limits macroalgal blooms in a highly eutrophic southern California estuary."

1999 ASLO Santa Fe, NM:

Albert Benthien, University of Bremen, Germany

Benthien, A., N. Andersen, P.J. Mueller, R.R. Schneider and G. Wefer. "Alkenone Delta C-13 Derived PCO2 Levels in Surface Waters of the South Atlantic: Holocene vs. Last Glacial Maximum."

Marnie L. Branfireun, McGill University, Montreal, Canada

Branfireun, M. L. and T. R. Moore. "Decomposition and Methylmercury Availability in a Boreal Wetland."

Howard Glasgow, North Carolina State University

Glasgow, H.B., J.M. Burkholder and A.J. Lewitus. "Stimulation of *Pfiesteria piscicida* and a Second Toxic *Pfiesteria*-Like Species by N and P Enrichments."

Susanne Menden-Deuer, University of Washington

Menden-Deuer, S. and E.J. Lessard. "Carbon to Volume Relationships in Heterotrophic and Phototrophic, Thecate and Athecate Dinoflagellates."

Sunshine Menezes, University of Rhode Island

S. Menezes and P.E. Hargraves. "Community Trends Among Nanoplankton in the Pettaquamscutt River Estuary, Rhode Island, USA."

Pallaoor V. Sundareshwar, University of South Carolina

Sundareshwar, P. V. and Morris J. T. "Differential Nutrient Limitation Among Trophic Groups in a Pristine Salt Marsh Estuary, South Carolina, USA."

RESULTS

Not applicable to this project

IMPACT

The monetary awards have served to increase the number and quality of submissions, as well as to increase the prestige of the award itself. This has been an extremely valuable form of recognition for students at a critical point in their career development. Through presentations at the meetings, follow-up articles in the ASLO Bulletin, and listing on the web page, students are gaining a high

level of recognition which they would not otherwise achieve. The striving for excellence which these awards encourage is having a positive and lasting impact upon the aquatic science community.

TRANSITIONS

Not applicable to this project

RELATED PROJECTS

None

PUBLICATIONS

- Weiler, C.S. 1993. 1993 ASLO/ONR Student Poster Award Recipients. *ASLO Bulletin* 2(2): 15-17.
Weiler, C.S. 1994. 1994 ASLO/ONR Student Poster Award Recipients. *ASLO Bulletin* 3(2): 13-15.
Weiler, C.S. 1995. 1995 ASLO/ONR Student Poster Award Recipients. *ASLO Bulletin* 4(3): 15.
Weiler, C.S. 1996. 1996 Outstanding Student Poster Award Recipients. *ASLO Bulletin* 5(2): 17-17.
Weiler, C.S. 1997. 1997 Outstanding Student Poster Award Recipients. *ASLO Bulletin* 6(1): 28-30.
Weiler, C.S. 1998. 1998 Outstanding Student Poster Award Recipients. *ASLO Bulletin* 7(2): 23-25.
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